



IES INDOOR REPORT
PHOTOMETRIC FILENAME : EGW-2-LED-10L-CA-S-40-80.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 3649
 [TESTLAB] TUV SUD America
 [TESTDATE] 1/16/2019 1:57:47 PM
 [ISSUEDATE] 03/11/21
 [MANUFAC] LSI INDUSTRIES, INC.
 [LUMCAT] EGW-2-LED-10L-CA-S-40-80
 [OTHER] TEST PROCEDURE: IESNA LM-79-08
 [ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
 [OTHER] SCALED FROM ORIGINAL TEST DATA
 [SEARCH_SOURCETYPE] LED
 [SEARCH_APPLICATION] Indoor
 [SEARCH_COLORTEMP] 4000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10482
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	70
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.00 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.33 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	28813	20457	28609
55	25977	17367	22774
65	20719	12799	15320
75	19860	9007	6068
85	14451	5923	1547

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	4230	4230	4230	4230	4230	4230	4230	4230	4230	4230
2.5	3632	3422	3581	4034	4437	3719	3247	3177	3342	3177
5.0	3329	3258	2858	3094	4399	2895	2921	3113	3209	3113
7.5	3584	3280	3185	2642	4374	2750	2890	3488	3989	3488
10.0	4044	4146	3142	2722	4333	2936	3282	4391	4332	4391
12.5	3615	3730	3716	3057	4302	2815	4355	3436	2948	3436
15.0	2978	3004	3958	3183	4244	2603	3946	2528	2507	2528
17.5	3354	2808	3066	2927	4192	2655	2522	2719	3487	2719
20.0	3659	3709	2761	2963	4126	3311	2290	3639	3940	3639
22.5	2911	3503	2735	3737	4029	4448	2436	3240	2494	3240
25.0	2385	2461	3203	4241	3937	4558	3334	2276	2429	2276
27.5	2306	2318	3330	3555	3839	3239	3481	2364	3286	2364
30.0	2398	2284	2728	2574	3778	2225	2387	3091	3347	3091
32.5	2739	2360	2228	2174	3686	1992	2079	3453	2944	3453
35.0	2745	2603	2140	2311	3601	1887	2346	2792	3000	2792
37.5	2654	2628	2055	2426	3489	1908	2855	2619	2554	2619
40.0	2447	2580	2064	2565	3370	2599	3144	2590	2527	2590
42.5	2155	2291	2228	2939	3262	2885	2647	2251	2536	2251
45.0	2210	2068	2137	2514	3134	2175	2312	2272	2369	2272
47.5	2275	2128	2154	1798	2961	1935	2097	2237	2132	2237
50.0	2077	2107	2065	1600	2763	1923	1791	2182	1758	2182
52.5	1679	1930	1821	1579	2565	1910	1733	1689	1934	1689
55.0	1715	1585	1705	1501	2370	1888	1656	1594	1717	1594
57.5	1586	1582	1590	1419	2204	1802	1615	1629	1604	1629
60.0	1394	1509	1515	1343	1989	1518	1401	1293	1595	1293
62.5	1434	1335	1300	1217	1733	1243	1139	1284	1297	1284
65.0	1105	1332	1138	1051	1462	1067	1112	1270	1490	1270
67.5	1077	1100	1082	936	1202	907	1051	1074	1180	1074
70.0	1001	992	969	853	940	743	850	1154	1051	1154
72.5	788	969	818	734	704	581	770	930	1065	930
75.0	775	772	693	601	509	468	717	839	996	839
77.5	859	778	598	494	351	396	702	964	984	964
80.0	645	727	600	402	235	329	635	697	697	697
82.5	409	475	538	314	159	283	447	488	536	488
85.0	340	323	371	259	108	228	302	370	411	370
87.5	275	261	243	194	73	143	241	326	369	326
90.0	250	230	177	123	48	114	217	292	333	292
92.5	239	219	145	94	42	105	215	274	309	274
95.0	240	217	138	89	45	98	219	261	280	261
97.5	209	207	139	88	45	88	207	243	244	243
100.0	169	175	134	82	43	76	184	216	226	216
102.5	151	151	125	73	39	61	163	205	226	205
105.0	141	139	117	61	33	43	137	191	217	191
107.5	132	127	107	44	28	27	113	169	195	169
110.0	120	113	93	27	23	15	94	148	173	148
112.5	106	100	78	14	18	7	76	131	153	131
115.0	95	88	61	7	14	4	54	116	139	116
117.5	86	79	44	4	10	2	34	100	127	100
120.0	79	70	31	3	6	1	24	78	109	78
122.5	66	55	21	1	3	0	17	54	82	54
125.0	50	40	14	1	1	0	7	42	60	42
127.5	37	29	5	0	0	0	0	31	47	31
130.0	27	23	0	0	0	0	0	23	34	23
132.5	21	16	0	0	0	0	0	11	25	11

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CANDELA TABULATION - (Cont.)

135.0	14	6	0	0	0	0	0	1	11	1
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	4230	4230	4230	4230	4230	4230	4230
2.5	3247	3719	4437	4034	3581	3422	3632
5.0	2921	2895	4399	3094	2858	3258	3329
7.5	2890	2750	4374	2642	3185	3280	3584
10.0	3282	2936	4333	2722	3142	4146	4044
12.5	4355	2815	4302	3057	3716	3730	3615
15.0	3946	2603	4244	3183	3958	3004	2978
17.5	2522	2655	4192	2927	3066	2808	3354
20.0	2290	3311	4126	2963	2761	3709	3659
22.5	2436	4448	4029	3737	2735	3503	2911
25.0	3334	4558	3937	4241	3203	2461	2385
27.5	3481	3239	3839	3555	3330	2318	2306
30.0	2387	2225	3778	2574	2728	2284	2398
32.5	2079	1992	3686	2174	2228	2360	2739
35.0	2346	1887	3601	2311	2140	2603	2745
37.5	2855	1908	3489	2426	2055	2628	2654
40.0	3144	2599	3370	2565	2064	2580	2447
42.5	2647	2885	3262	2939	2228	2291	2155
45.0	2312	2175	3134	2514	2137	2068	2210
47.5	2097	1935	2961	1798	2154	2128	2275
50.0	1791	1923	2763	1600	2065	2107	2077
52.5	1733	1910	2565	1579	1821	1930	1679
55.0	1656	1888	2370	1501	1705	1585	1715
57.5	1615	1802	2204	1419	1590	1582	1586
60.0	1401	1518	1989	1343	1515	1509	1394
62.5	1139	1243	1733	1217	1300	1335	1434
65.0	1112	1067	1462	1051	1138	1332	1105
67.5	1051	907	1202	936	1082	1100	1077
70.0	850	743	940	853	969	992	1001
72.5	770	581	704	734	818	969	788
75.0	717	468	509	601	693	772	775
77.5	702	396	351	494	598	778	859
80.0	635	329	235	402	600	727	645

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82.5	447	283	159	314	538	475	409
85.0	302	228	108	259	371	323	340
87.5	241	143	73	194	243	261	275
90.0	217	114	48	123	177	230	250
92.5	215	105	42	94	145	219	239
95.0	219	98	45	89	138	217	240
97.5	207	88	45	88	139	207	209
100.0	184	76	43	82	134	175	169
102.5	163	61	39	73	125	151	151
105.0	137	43	33	61	117	139	141
107.5	113	27	28	44	107	127	132
110.0	94	15	23	27	93	113	120
112.5	76	7	18	14	78	100	106
115.0	54	4	14	7	61	88	95
117.5	34	2	10	4	44	79	86
120.0	24	1	6	3	31	70	79
122.5	17	0	3	1	21	55	66
125.0	7	0	1	1	14	40	50
127.5	0	0	0	0	5	29	37
130.0	0	0	0	0	0	23	27
132.5	0	0	0	0	0	16	21
135.0	0	0	0	0	0	6	14
137.5	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1266.63	N.A.	12.10
0-30	2741.07	N.A.	26.20
0-40	4381.82	N.A.	41.80
0-60	7802.17	N.A.	74.40
0-80	9756.72	N.A.	93.10
0-90	10104.37	N.A.	96.40
10-90	9777.2	N.A.	93.30
20-40	3115.19	N.A.	29.70
20-50	4950.29	N.A.	47.20
40-70	4614.86	N.A.	44.00
60-80	1954.54	N.A.	18.60
70-80	760.04	N.A.	7.30
80-90	347.66	N.A.	3.30
90-110	296.82	N.A.	2.80
90-120	355.33	N.A.	3.40
90-130	374.75	N.A.	3.60
90-150	377.47	N.A.	3.60
90-180	377.47	N.A.	3.60
110-180	80.65	N.A.	0.80
0-180	10481.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	327.18
10-20	939.46
20-30	1474.44
30-40	1640.75
40-50	1835.1
50-60	1585.25
60-70	1194.5
70-80	760.04
80-90	347.66
90-100	178.67
100-110	118.16
110-120	58.51
120-130	19.42
130-140	2.72
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

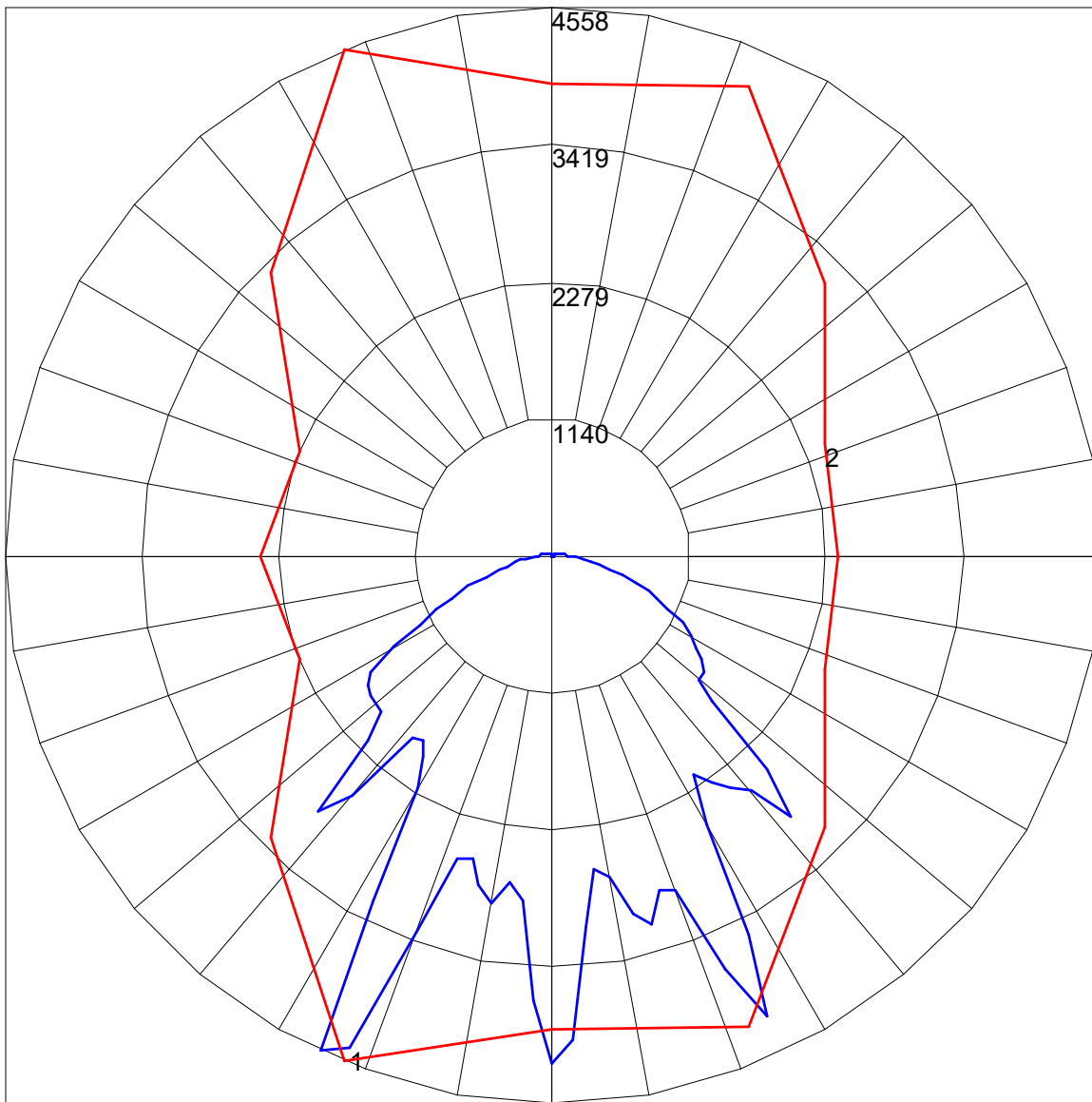
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	107	102	98	94	104	100	95	92	95	91	88	90	87	85	86	84	82	79
2	97	89	82	76	94	87	80	75	83	77	72	79	74	70	75	71	68	66
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	66	62	58	55
4	81	69	60	53	79	67	59	53	64	57	52	62	55	50	59	54	49	47
5	75	62	53	46	72	60	52	45	58	50	45	55	49	44	53	47	43	41
6	69	55	46	40	67	54	46	40	52	45	39	50	43	38	48	42	38	36
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	31
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	40	34	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	37	31	27	25
10	52	39	31	26	51	38	31	25	37	30	25	36	29	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 4558 Located At Horizontal Angle = 112.5, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (112.5 - 292.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)